July 05, 2017

Carolyn Green
Dunlap Lake Property Owners Association
P.O. Box 5
Edwardsville, IL 62025
TEL: (618) 791-1398
FAX:

RE: Lake Water **WorkOrder:** 17061780

Dear Carolyn Green:

TEKLAB, INC received 3 samples on 6/28/2017 8:31:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: Dunlap Lake Property Owners Association
Work Order: 17061780
Client Project: Lake Water
Report Date: 05-Jul-17

This reporting package includes the following:

Client: Dunlap Lake Property Owners Association **Work Order:** 17061780

Client Project: Lake Water **Report Date:** 05-Jul-17

Abbr Definition

CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
DNI	Did not ignite
DUP	Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# -	Unknown hydrocarbon	B -	Analyte detected in associated Method Blank
E -	Value above quantitation range	H -	Holding times exceeded
I -	Associated internal standard was outside method criteria	M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit	R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits	T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level		

Case Narrative

http://www.teklabinc.com/

Client: Dunlap Lake Property Owners Association

Client Project: Lake Water

Work Order: 17061780

Report Date: 05-Jul-17

Cooler Receipt Temp: 3.42 °C

Locations

Collinsville

Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	jhriley@teklabinc.com

Springfield

Address	3920 Pintail Dr Springfield, IL 62711-9415
Phone	(217) 698-1004
Fax	(217) 698-1005
Email	KKlostermann@teklabinc.com

Kansas City

Address	8421 Nieman Road Lenexa, KS 66214
Phone	(913) 541-1998
Fax	(913) 541-1998
Email	jhriley@teklabinc.com

Collinsville Air

Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	EHurley@teklabinc.com

Chicago

Address	1319 Butterfield Rd. Downers Grove, IL 60515
Phone	(630) 324-6855
Fax	
Email	jhriley@teklabinc.com

Client: Dunlap Lake Property Owners Association **Work Order:** 17061780

Client Project: Lake Water **Report Date:** 05-Jul-17

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2018	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2018	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2018	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2018	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2017	Collinsville
Arkansas	ADEQ	88-0966		3/14/2018	Collinsville
Illinois	IDPH	17584		5/31/2017	Collinsville
Indiana	ISDH	C-IL-06		1/31/2018	Collinsville
Kentucky	KDEP	98006		12/31/2017	Collinsville
Kentucky	UST	0073		1/31/2018	Collinsville
Louisiana	LDPH	LA170027		12/31/2017	Collinsville
Missouri	MDNR	930		1/31/2018	Collinsville
Missouri	MDNR	00930		5/31/2017	Collinsville
Oklahoma	ODEQ	9978		8/31/2017	Collinsville

Client: Dunlap Lake Property Owners Association
Work Order: 17061780

Client Project: Lake Water
Report Date: 05-Jul-17

Lab ID: 17061780-001
Client Sample ID: 1

Matrix: AQUEOUS
Collection Date: 06/28/2017 7:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 18TH ED. 9222 D MEMBRANE FILTER								
Fecal Coliform		10		**30**	CFU/100ml	10	06/28/2017 13:49	R234640
STANDARD METHODS 18TH ED. 9222D, 9221F EC-MUG								
E Coli		0		**Absent**	P/A	1	06/28/2017 13:41	R234640
EPA 600 351.2								
Total Kjeldahl Nitrogen (as N)	NELAP	0.50		**2.3**	mg/L	1	06/29/2017 11:15	131764
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total		0.05		**2.33**	mg/L	1	07/03/2017 0:00	R234777
EPA 600 353.2 R2.0 (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	06/30/2017 11:34	R234693
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.050		**0.261**	mg/L	1	06/29/2017 11:14	131763
STANDARD METHODS 4500-NO2 B (TOTAL)								
Nitrogen, Nitrite (as N)	NELAP	0.05		**< 0.05**	mg/L	1	06/28/2017 13:47	R234607
EPA 600 245.1 R3.0 (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/29/2017 12:01	131741
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	06/29/2017 10:21	131742
Copper	NELAP	0.0050		**< 0.0050**	mg/L	1	06/29/2017 10:21	131742
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	06/29/2017 10:21	131742

Client: Dunlap Lake Property Owners Association **Work Order:** 17061780

Client Project: Lake Water **Report Date:** 05-Jul-17

Lab ID: 17061780-002 **Client Sample ID:** 2

Matrix: AQUEOUS **Collection Date:** 06/28/2017 7:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 18TH ED. 9222 D MEMBRANE FILTER								
Fecal Coliform		10		**< 10**	CFU/100ml	10	06/28/2017 13:53	R234640
EPA 600 351.2								
Total Kjeldahl Nitrogen (as N)	NELAP	0.50		**1.5**	mg/L	1	06/29/2017 11:20	131764
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total		0.05		**1.53**	mg/L	1	07/03/2017 0:00	R234777
EPA 600 353.2 R2.0 (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	06/30/2017 11:37	R234693
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.050		**0.155**	mg/L	1	06/29/2017 11:19	131763
STANDARD METHODS 4500-NO2 B (TOTAL)								
Nitrogen, Nitrite (as N)	NELAP	0.05		**< 0.05**	mg/L	1	06/28/2017 13:48	R234607
EPA 600 245.1 R3.0 (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/29/2017 12:03	131741
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	06/29/2017 10:24	131742
Copper	NELAP	0.0050		**< 0.0050**	mg/L	1	06/29/2017 10:24	131742
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	06/29/2017 10:24	131742

Client: Dunlap Lake Property Owners Association **Work Order:** 17061780

Client Project: Lake Water **Report Date:** 05-Jul-17

Lab ID: 17061780-003 **Client Sample ID:** 3

Matrix: AQUEOUS **Collection Date:** 06/28/2017 7:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 18TH ED. 9222 D MEMBRANE FILTER								
Fecal Coliform		10		**10**	CFU/100ml	10	06/28/2017 13:56	R234640
STANDARD METHODS 18TH ED. 9222D, 9221F EC-MUG								
E Coli		0		**Absent**	P/A	1	06/28/2017 13:41	R234640
EPA 600 351.2								
Total Kjeldahl Nitrogen (as N)	NELAP	0.50		**1.6**	mg/L	1	06/29/2017 11:23	131764
EPA 600 351.2 R2.0, 353.2 R2.0								
Nitrogen, Total		0.05		**1.62**	mg/L	1	07/03/2017 0:00	R234777
EPA 600 353.2 R2.0 (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	06/30/2017 11:41	R234693
EPA 600 365.4 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.050		**0.139**	mg/L	1	06/29/2017 11:22	131763
STANDARD METHODS 4500-NO2 B (TOTAL)								
Nitrogen, Nitrite (as N)	NELAP	0.05		**< 0.05**	mg/L	1	06/28/2017 13:48	R234607
EPA 600 245.1 R3.0 (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/29/2017 12:05	131741
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	06/29/2017 10:39	131742
Copper	NELAP	0.0050		**< 0.0050**	mg/L	1	06/29/2017 10:39	131742
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	06/29/2017 10:39	131742

Receiving Check List

http://www.teklabinc.com/

Client: Dunlap Lake Property Owners Association
Client Project: Lake Water

Work Order: 17061780
Report Date: 05-Jul-17

Carrier: Carolyn Green

Received By: AMD

Completed by: Kalyn Foecke
On: 28-Jun-17

Reviewed by: Elizabeth A. Hurley
On: 28-Jun-17

Pages to follow: Chain of custody 1 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	3.42
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

pg. ____ of ____ Work order # 17061780

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Dunlap Lake Property Owners Association
Address:	P.O. Box 5
City / State / Zip	Edwardsville, IL 62025
Contact:	Carolyn Green
Phone:	(618) 791-1398
E-Mail:	carolyn@dunlaplake.org
Fax:	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 3.2 °C

Preserved in: ☐ LAB ☒ FIELD KF/SMH 6/28/17

FOR LAB USE ONLY

Lab Notes

Client Comments: Need fecal results back asap (need for 4th of July weekend)

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number: Lake Water

Sample Collector's Name:

Results Requested: ☒ Standard ☒ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions:

 # and Type of Containers: UNPRES, HNO3, NaOH, H2SO4, HCL, MeOH, NaHSO4, OTHER

MATRIX: Aqueous, Drinking Water, Soil, Sludge, Special Waste, Groundwater

INDICATE ANALYSIS REQUESTED: As Cu Pb, Fecal Coliform/eColi, Hg, Nitrate, Nitrite, Phosphorus, TKN, Total Nitrogen

Lab Use Only	Sample Identification	Date/Time Sampled	UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	As Cu Pb	Fecal Coliform/eColi	Hg	Nitrate	Nitrite	Phosphorus	TKN	Total Nitrogen
17061780-001	1	7:15 6-28-17															✓	✓	✓	✓	✓	✓	✓	✓
002	2 6/28	~~7:00~~ 7:25															✓	✓	✓	✓	✓	✓	✓	✓
003	3 6/28	7:30															✓	✓	✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Carolyn Green	8:31 6-28-17	[illegible]	6/28/17 831

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 38367